

Preliminary Estimates
By Race and Other Selected Demographic Characteristics
2002 Michigan Behavioral Risk Factor Survey

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Introduction

The 2002 Michigan Behavioral Risk Factor Survey (BRFS) was a statewide telephone survey conducted in cooperation with the Centers for Disease Control and Prevention as part of the national Behavioral Risk Factor Surveillance System (BRFSS). Data were collected quarterly by the Michigan State University Institute for Public Policy and Social Research. Estimates from this survey were weighted to adjust for the probabilities of selection and a poststratification weighting factor adjusting for sex, race, and age. Calculation of prevalence estimates and confidence intervals were performed using SUDAAN to account for weighting and complex sampling design.

The sample size for the 2002 Michigan BRFS was notably larger than that of previous annual surveys, with a total sample size of 5,915 and a sample size for African Americans of 489. This larger sample size allowed for the calculation of estimates for some demographic subgroups within race, which generally has not been possible in previous years. However, despite this larger sample size some of the estimates for African-American subgroups are relatively imprecise (i.e., have large confidence intervals) and should be used with caution. A useful rule of thumb when comparing two estimates is that if their confidence intervals do not overlap, it is likely that the two estimates are significantly different.

Prevalence of Having No Health Care Coverage¹ Among 18-64-Year-Olds By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	13.8 ±1.3	11.9 ±1.4	19.7 ±4.7
Age (in years)			
18-34	19.3 ±2.7	18.1 ±3.0	20.3 ±7.6
35-54	11.0 ±1.7	8.9 ±1.5	19.6 ±6.9
55-64	8.8 ±2.4	7.6 ±2.3	17.8 ±11.3
Sex			
Males	14.5 ±2.1	12.3 ±2.1	19.4 ±7.6
Females	13.0 ±1.7	11.6 ±1.8	19.9 ±5.9
Education			
<= High school graduate	21.5 ±2.6	20.3 ±2.9	24.9 ±7.8
Some college	11.7 ±2.2	9.6 ±2.1	20.6 ±7.8
College graduate	6.4 ±1.7	4.6 ±1.5	5.1 ±5.7
Household income			
< \$20,000	36.7 ±5.7	35.7 ±6.8	35.3 ±12.7
\$20,000-49,999	16.2 ±2.3	14.6 ±2.5	21.1 ±7.1
\$50,000 +	4.6 ±1.3	4.2 ±1.2	3.0 ±3.6*
¹ Among 18-64-year olds, the proportion who responded “no” to the question, “Do you have any kind of health care coverage, including health insurance, prepaid plans such as HMOs, or government plans such as Medicare?” ² Total estimates include all racial groups. *95% confidence interval exceeds possible limits.			

Prevalence of Fair or Poor General Health¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	13.5 ±1.1	12.5 ±1.1	19.3 ±4.2
Age (in years)			
18-34	7.0 ±1.7	5.4 ±1.7	13.1 ±6.4
35-54	11.7 ±1.6	11.0 ±1.7	14.5 ±5.9
55+	23.3 ±2.3	21.4 ±2.3	37.2 ±10.0
Sex			
Males	12.1 ±1.6	10.9 ±1.6	20.1 ±7.0
Females	14.9 ±1.5	14.1 ±1.6	18.6 ±5.1
Education			
<= High school graduate	20.2 ±2.0	19.0 ±2.1	26.2 ±6.8
Some college	12.3 ±1.9	11.5 ±2.0	15.8 ±6.8
College graduate	5.3 ±1.2	4.8 ±1.2	6.4 ±5.4
Household income			
< \$20,000	32.3 ±4.3	33.3 ±5.1	32.4 ±10.5
\$20,000-49,999	13.7 ±1.7	13.0 ±1.8	17.8 ±6.2
\$50,000 +	6.0 ±1.2	5.6 ±1.3	7.6 ±5.7
¹ Responded “fair” or “poor” to the question, “Would you say that in general your health is excellent, very good, good, fair, or poor?” ² Total estimates include all racial groups.			

Prevalence of Diabetes¹ by Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	8.1 ±0.8	7.5 ±0.9	11.3 ±3.1
Age (in years)			
18-34	1.4 ±0.7	1.0 ±0.7	1.5 ±2.3*
35-54	6.0 ±1.1	5.5 ±1.2	7.3 ±4.3
55+	18.3 ±2.2	16.4 ±2.2	33.5 ±9.3
Sex			
Males	7.9 ±1.2	7.7 ±1.3	8.4 ±4.1
Females	8.2 ±1.2	7.2 ±1.2	13.7 ±4.6
Education			
<= High school graduate	10.0 ±1.5	9.6 ±1.6	11.6 ±4.6
Some college	8.3 ±1.5	7.5 ±1.6	12.3 ±5.5
College graduate	5.0 ±1.1	4.7 ±1.2	9.0 ±6.5
Household income			
< \$20,000	13.3 ±2.8	13.0 ±3.4	11.9 ±5.9
\$20,000-49,999	8.9 ±1.4	8.9 ±1.5	10.8 ±5.0
\$50,000 +	4.7 ±1.1	4.3 ±1.1	7.2 ±5.4
¹ Proportion who had ever been told by a doctor that they had diabetes, excluding gestational diabetes. ² Total estimates include all racial groups. *95% confidence interval exceeds possible limits.			

Prevalence of Current Asthma¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	8.8 ±0.9	8.8 ±1.0	9.1 ±3.1
Age (in years)			
18-34	8.9 ±1.8	9.0 ±2.1	9.2 ±5.2
35-54	8.5 ±1.4	8.4 ±1.5	9.7 ±5.3
55+	9.1 ±1.6	9.0 ±1.7	8.0 ±5.8
Sex			
Males	7.2 ±1.4	7.3 ±1.5	7.6 ±5.0
Females	10.2 ±1.3	10.1 ±1.4	10.3 ±4.0
Education			
<= High school graduate	9.5 ±1.5	9.2 ±1.6	10.7 ±5.0
Some college	9.3 ±1.8	9.8 ±2.0	7.6 ±4.5
College graduate	7.3 ±1.5	7.2 ±1.6	7.8 ±7.2
Household income			
< \$20,000	9.9 ±2.5	11.0 ±3.2	6.5 ±4.9
\$20,000-49,999	9.4 ±1.6	8.8 ±1.6	12.9 ±5.8
\$50,000 +	7.8 ±1.4	8.2 ±1.5	6.2 ±5.4
¹ Proportion of all respondents who responded “yes” to both of the following questions: “Have you ever been told by a doctor, nurse, or other health professional that you had asthma?” and “Do you still have asthma?”			
² Total estimates include all racial groups.			

Prevalence of Current Smoking¹ by Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	24.1 ±1.4	23.9 ±1.5	25.3 ±4.8
Age (in years)			
18-34	28.5 ±3.0	30.1 ±3.5	21.6 ±7.8
35-54	28.4 ±2.3	27.5 ±2.4	34.2 ±8.3
55+	13.6 ±1.8	13.1 ±1.9	16.3 ±7.2
Sex			
Males	25.4 ±2.2	24.9 ±2.4	27.7 ±8.0
Females	23.0 ±1.8	23.0 ±2.0	23.4 ±5.7
Education			
<= High school graduate	32.2 ±2.5	32.4 ±2.7	32.2 ±7.6
Some college	24.6 ±2.6	24.3 ±2.8	21.6 ±7.4
College graduate	12.2 ±1.9	12.1 ±2.0	13.2 ±7.6
Household income			
< \$20,000	34.7 ±4.6	34.3 ±5.3	37.3 ±11.3
\$20,000-49,999	27.9 ±2.4	27.8 ±2.6	28.4 ±7.6
\$50,000 +	19.1 ±2.2	19.1 ±2.3	18.6 ±8.8
¹ Reported that they had smoked at least 100 cigarettes in their lifetime and that they currently smoked cigarettes every day or some days.			
² Total estimates include all racial groups.			

Prevalence of Obesity¹ by Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	25.2 ±1.4	23.7 ±1.5	34.5 ±5.2
Age (in years)			
18-34	19.1 ±2.6	16.3 ±2.8	30.0 ±8.3
35-54	28.1 ±2.3	27.3 ±2.4	34.3 ±8.7
55+	27.7 ±2.5	25.7 ±2.5	42.4 ±10.2
Sex			
Males	25.0 ±2.1	24.2 ±2.2	30.1 ±8.0
Females	25.5 ±1.9	23.2 ±1.9	38.2 ±6.8
Education			
<= High school graduate	29.0 ±2.4	27.3 ±2.5	36.7 ±7.6
Some college	27.6 ±2.7	24.7 ±2.8	43.1 ±9.5
College graduate	17.5 ±2.2	17.9 ±2.3	12.2 ±7.9
Household income			
< \$20,000	30.4 ±4.4	28.2 ±4.8	35.6 ±10.9
\$20,000-49,999	27.3 ±2.4	25.9 ±2.5	38.6 ±8.4
\$50,000 +	23.2 ±2.3	22.4 ±2.3	27.9 ±10.2
¹ Obesity is defined as a body mass index (BMI) of 30.0 or greater. BMI is defined as weight (in kilograms) divided by height (in meters) squared [weight/height ²]. Pregnant women were excluded from this analysis. ² Total estimates include all racial groups.			

Prevalence of Consuming Fruits and Vegetables Five or More Times Daily¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	22.6 ±1.4	22.3 ±1.4	22.7 ±4.7
Age (in years)			
18-34	17.4 ±2.5	16.6 ±2.8	21.6 ±8.0
35-54	21.4 ±2.0	20.7 ±2.1	20.5 ±7.4
55+	30.2 ±2.5	30.1 ±2.6	27.7 ±9.1
Sex			
Males	17.8 ±2.0	16.3 ±2.0	23.5 ±7.8
Females	27.1 ±1.8	27.9 ±2.0	22.0 ±5.7
Education			
<= High school graduate	19.1 ±2.0	19.2 ±2.2	19.7 ±6.5
Some college	21.9 ±2.5	22.1 ±2.6	20.7 ±7.7
College graduate	28.1 ±2.6	26.4 ±2.6	32.9 ±11.9
Household income			
< \$20,000	22.7 ±4.1	22.1 ±4.5	23.3 ±10.3
\$20,000-49,999	21.0 ±2.1	21.5 ±2.3	19.4 ±7.0
\$50,000 +	23.0 ±2.2	22.0 ±2.3	22.7 ±9.6
¹ Proportion who reported consuming fruits and vegetables five or more times per day, as measured by frequencies of usual consumption of fruit juice, fruit, green salad, potatoes, carrots, and all other vegetables (six questions). ² Total estimates include all racial groups.			

Prevalence of No Leisure-Time Physical Activity¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	24.3 ±1.4	22.7 ±1.5	32.2 ±5.0
Age (in years)			
18-34	21.2 ±2.7	17.8 ±2.9	34.6 ±8.7
35-54	22.2 ±2.1	21.5 ±2.2	26.4 ±7.8
55+	30.5 ±2.5	29.0 ±2.6	38.3 ±9.7
Sex			
Males	21.6 ±2.1	20.4 ±2.2	28.8 ±8.0
Females	26.8 ±1.9	24.9 ±1.9	34.9 ±6.4
Education			
<= High school graduate	36.4 ±2.5	35.1 ±2.7	39.8 ±7.7
Some college	20.0 ±2.4	17.8 ±2.4	30.0 ±8.6
College graduate	11.4 ±1.8	10.9 ±1.9	14.6 ±7.7
Household income			
< \$20,000	36.9 ±4.5	37.3 ±5.3	39.2 ±10.8
\$20,000-49,999	29.2 ±2.4	27.5 ±2.5	37.0 ±8.1
\$50,000 +	13.0 ±1.7	12.9 ±1.8	10.8 ±6.9
¹ Reported “no” to the question, “During the past month, other than your regular job, did you participate in any physical activities or exercises such as running, calisthenics, golf, gardening, or walking for exercise?”			
² Total estimates include all racial groups.			

Prevalence of Inadequate Physical Activity¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	52.5 ±1.6	51.8 ±1.8	56.0 ±5.6
Age (in years)			
18-34	48.5 ±3.4	46.1 ±3.8	56.9 ±9.3
35-54	49.5 ±2.5	50.2 ±2.6	46.5 ±8.9
55+	61.4 ±2.7	59.7 ±2.8	71.2 ±9.8
Sex			
Males	48.8 ±2.5	48.5 ±2.7	50.7 ±9.1
Females	56.0 ±2.1	54.9 ±2.3	60.3 ±6.9
Education			
<= High school graduate	55.7 ±2.6	54.8 ±2.9	59.4 ±8.2
Some college	50.4 ±3.0	49.7 ±3.3	54.2 ±9.3
College graduate	50.1 ±2.9	49.8 ±3.1	48.3 ±12.5
Household income			
< \$20,000	58.0 ±4.8	59.4 ±5.5	53.6 ±11.8
\$20,000-49,999	54.5 ±2.7	54.1 ±2.9	56.3 ±8.5
\$50,000 +	46.7 ±2.7	46.5 ±2.8	45.8 ±11.3
¹ Did not engage in either 30 minutes or more of moderate physical activity five or more days per week, or at least 20 minutes of vigorous physical activity three or more days per week. ² Total estimates include all racial groups.			

Prevalence of No Dental Visits in the Past Year¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	23.9 ±1.4	21.4 ±1.5	35.1 ±5.2
Age (in years)			
18-34	24.8 ±2.9	23.1 ±3.2	29.8 ±8.5
35-54	22.4 ±2.1	19.3 ±2.1	40.0 ±8.6
55+	24.9 ±2.4	22.6 ±2.4	34.7 ±9.4
Sex			
Males	24.7 ±2.2	22.2 ±2.2	36.1 ±8.4
Females	23.1 ±1.8	20.7 ±1.9	34.3 ±6.5
Education			
<= High school graduate	33.1 ±2.4	30.7 ±2.6	42.6 ±7.9
Some college	21.1 ±2.5	18.4 ±2.5	31.1 ±8.5
College graduate	13.6 ±2.1	12.0 ±2.1	22.4 ±10.3
Household income			
< \$20,000	47.6 ±4.7	46.1 ±5.5	52.1 ±11.2
\$20,000-49,999	26.6 ±2.3	24.9 ±2.5	33.0 ±7.8
\$50,000 +	13.2 ±1.9	11.9 ±1.8	22.9 ±9.6
¹ Response to the question, "How long has it been since you last visited a dentist or dental clinic for any reason?"			
² Total estimates include all racial groups.			

Prevalence of Ever Having Had an HIV Test¹ Among 18-64-Year-Olds By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	44.8 ±1.8	41.6 ±1.9	62.9 ±5.7
Age (in years)			
18-34	56.6 ±3.3	53.4 ±3.8	74.2 ±8.3
35-54	42.8 ±2.5	39.9 ±2.6	60.7 ±8.5
55+	20.9 ±3.3	19.7 ±3.5	30.8 ±12.9
Sex			
Males	42.1 ±2.8	39.0 ±2.9	63.6 ±9.0
Females	47.6 ±2.4	44.2 ±2.5	62.4 ±7.1
Education			
<= High school graduate	42.3 ±3.0	37.9 ±3.2	62.7 ±8.6
Some college	48.1 ±3.3	44.5 ±3.5	62.6 ±9.3
College graduate	44.6 ±3.1	43.3 ±3.3	62.9 ±12.9
Household income			
< \$20,000	46.1 ±5.9	37.7 ±6.7	69.1 ±11.8
\$20,000-49,999	47.5 ±3.0	42.8 ±3.3	67.4 ±8.2
\$50,000 +	44.6 ±2.7	43.1 ±2.8	58.9 ±11.3
¹ Responded “yes” to the question, “Have you ever been tested for HIV? Do not count tests you may have had as part of a blood donation.” “Don’t know” was considered a valid response; 2.4% reported “don’t know.”			
² Total estimates include all racial groups.			

Prevalence of Binge Drinking¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	16.8 ±1.3	17.7 ±1.4	11.5 ±3.4
Age (in years)			
18-34	27.9 ±3.0	30.7 ±3.5	16.7 ±6.8
35-54	16.8 ±1.9	17.8 ±2.1	12.3 ±5.3
55+	4.8 ±1.2	5.0 ±1.3	1.5 ±1.6*
Sex			
Males	24.5 ±2.2	26.1 ±2.5	15.1 ±6.2
Females	9.7 ±1.3	9.8 ±1.4	8.6 ±3.5
Education			
<= High school graduate	16.2 ±1.9	16.9 ±2.2	10.7 ±4.5
Some college	18.1 ±2.5	19.1 ±2.8	12.0 ±6.0
College graduate	16.4 ±2.4	17.4 ±2.6	13.1 ±9.6
Household income			
< \$20,000	16.3 ±3.8	16.9 ±4.7	12.5 ±7.2
\$20,000-49,999	16.8 ±2.0	17.6 ±2.3	12.1 ±5.3
\$50,000 +	19.1 ±2.2	20.1 ±2.4	13.7 ±7.8
¹ Reported one or more times to the question, "Considering all types of alcoholic beverages, how many times during the past 30 days did you have five or more drinks on an occasion?" ² Total estimates include all racial groups. *95% confidence interval exceeds possible limits.			

Prevalence of Not Always Using Seatbelts When in a Car¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	16.4 ±1.3	16.2 ±1.3	20.0 ±4.5
Age (in years)			
18-34	20.8 ±2.7	20.3 ±3.1	25.6 ±8.4
35-54	14.7 ±1.8	15.1 ±1.9	15.6 ±6.6
55+	14.0 ±1.9	13.7 ±2.0	18.5 ±8.1
Sex			
Males	22.3 ±2.1	22.4 ±2.3	26.1 ±8.1
Females	11.0 ±1.4	10.5 ±1.4	15.0 ±4.8
Education			
<= High school graduate	17.8 ±2.1	17.9 ±2.2	20.6 ±6.8
Some college	16.7 ±2.3	15.9 ±2.4	21.7 ±7.9
College graduate	14.2 ±2.1	14.2 ±2.3	15.4 ±8.8
Household income			
< \$20,000	17.9 ±3.7	18.8 ±4.5	17.8 ±8.2
\$20,000-49,999	16.8 ±2.0	16.7 ±2.1	18.5 ±6.8
\$50,000 +	17.2 ±2.1	16.7 ±2.2	26.4 ±10.6
¹ Responded “nearly always,” “sometimes,” “seldom,” or “never” to the question “How often do you use seatbelts when you drive or ride in a car? Would you say always, nearly always, sometimes, seldom, or never?”			
² Total estimates include all racial groups.			

Prevalence of Having a Firearm in the Home¹ By Race and Selected Demographic Characteristics 2002 Michigan Behavioral Risk Factor Survey (percentages with 95% confidence interval limits)			
Demographic Characteristics	Total²	Whites	Blacks
Total	40.6 ±1.6	44.3 ±1.7	21.6 ±4.5
Age (in years)			
18-34	34.8 ±3.2	39.4 ±3.7	15.5 ±7.4
35-54	43.8 ±2.5	47.6 ±2.7	22.9 ±7.3
55+	42.5 ±2.7	44.7 ±2.8	28.7 ±8.9
Sex			
Males	47.5 ±2.5	50.7 ±2.7	32.1 ±8.2
Females	34.2 ±2.0	38.4 ±2.2	13.2 ±4.6
Education			
<= High school graduate	41.2 ±2.5	46.5 ±2.8	17.2 ±6.1
Some college	43.5 ±3.0	46.9 ±3.3	25.6 ±8.2
College graduate	36.8 ±2.9	39.0 ±3.1	26.6 ±11.1
Household income			
< \$20,000	24.7 ±4.2	29.9 ±5.2	13.0 ±8.2
\$20,000-49,999	41.6 ±2.6	46.3 ±2.8	19.7 ±6.4
\$50,000 +	47.5 ±2.7	48.8 ±2.8	37.3 ±11.1
¹ Responded “yes” to the question, “Are any firearms kept in or around your home?”			
² Total estimates include all racial groups.			